

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1-9. (Canceled)

10. (Currently Amended) ~~A storage system~~ disk array system, comprising:
a port receiving data from an information processing device;
a first controller controlling transfer of data received by said port;
a memory storing data in accordance with the controlling performed by said first controller;
a second controller controlling transfer of data stored in said memory;
a plurality of disk drive groups to which data transferred by said second controller is stored and having a plurality of storage regions in a plurality of disk drives;
a plurality of logical units being addresses to which data is sent from said information processing device and corresponding to said storage regions;
a plurality of resource groups each having a first plurality of resources among a plurality of said ports, said first controller, said memory, said second controller, said disk drive groups, or said logical units; and

a first resource in a first resource group of said resource groups, said first resource being changed from a first state of relating to a second resource in said first resource group into a second state of relating to a third resource in said first resource group ~~in case of~~ for changing configuration in said first resource group.

11. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, further comprising:

a plurality of information processing device groups sending data to said ports and having said information processing device,

wherein each of said resource groups has a second plurality of resources among said ports, said information processing device groups, said first controller, said memory, said second controller, said disk drive groups, or said logical units.

12. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, further comprising:

a physical resource having said ports, said first controller, said memory, said second controller, or said disk drive groups; and

a logical resource having said logical units;

wherein said first resource is said physical resource, and

wherein said second resource and said third resource are said logical resource.

13. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, further comprising:

a fourth resource in a second resource group of said resource groups, said fourth resource being changed from a third state of relating to a fifth resource in said second resource group into a fourth state of relating to a sixth resource in said second resource group ~~in case of~~ for changing configuration in said second resource group,

wherein one or more resources in said first resource group are of a different kind than all of the resources in said second resource group.

14. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, further comprising:

a fourth resource in a second resource group of said resource groups, said fourth resource being changed from a third state of relating to a fifth resource in said second resource group into a fourth state of relating to a sixth resource in said second resource group ~~in case of~~ for changing configuration in said second resource group; and

a seventh resource among said ports, said first controller, said memory, said second controller, said disk drive groups, or said logical units not belonging to said first resource group and said second resource group.

15. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, wherein:

said information processing device displays information of some resources in said first resource group and requests to change said first state into said second state.

16. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, further comprising:

a managing device having information relating to said resource groups; and
a management client coupled to said managing device and displaying information of some resources in said first resource group and requesting to change said first state into said second state.

17. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, wherein:

said first resource and said second resource are used to transfer data sent from said information processing device to a first storage region of said storage regions in said first resource group; and

said first resource and said third resource are used to transfer data sent from said information processing device to said first storage region or a second storage region of said storage regions in said first resource group.

18. (Currently Amended) ~~A storage system~~ The disk array system according to claim 10, further comprising:

a plurality of information processing devices sending data to said ports and having said information processing device;

wherein one of said information processing devices is permitted to access data in a first storage region of said storage regions in said first resource group and not allowed to access data in a second storage region of said storage regions in said first resource group, and

wherein another of said information processing devices is permitted to access data in said second storage region of said storage regions in said first resource group and not allowed to access data in said first storage region of said storage regions in said first resource group.

19. (Currently Amended) ~~A storage system~~ A disk array system, comprising:

a port receiving data from an information processing device;

a logical unit ~~being~~ provided for said information processing device and relating to a storage region;

a RAID (Redundant Array of Independent Disks) group relating to a plurality of disk drives, said disk drives storing a plurality of data and a parity data related to data sent from said information processing device and relating to said storage region;

a plurality of logical resources having said port, said logical unit and said RAID group;

a plurality of physical resources having said disk drives;

a plurality of resource groups each having one or more said logical resources and one or more said physical resources; and

a first resource in a first resource group of said resource groups, said first resource being changed from a first state of relating between said first resource and a second resource in said first resource group into a second state of relating between said first resource and a third resource in said first resource group ~~in case of~~ for changing configuration in said first resource group.

20. (Currently Amended) ~~A storage system~~ A disk array system, comprising:

a port receiving data from an information processing device;

a plurality of logical units ~~being provided~~ for said information processing device and relating to a plurality of storage regions;

a plurality of disk drives having said storage regions;

a plurality of ECC (Error Check and Correct) groups relating to said disk drives and each of said ECC groups storing a plurality of data and a parity data related to data sent from said information processing device;

a first plurality of resources having a plurality of said ports, said logical units, said disk drives and said ECC groups;

a second plurality of resources having a plurality of types of resources in said first plurality of resources; and

a plurality of resource groups each having said second plurality of resources; wherein each of said resource groups, independently of each other, can change a relationship between said second plurality of resources in each of said resource groups.

21. (Currently Amended) ~~A storage system~~ A disk array system, comprising:

a port receiving data sent from an information processing device;

a logical unit ~~being provided~~ for said information processing device to store data and relating to a storage region;

a plurality of disk drives having said storage region;

a RAID (Redundant Array of Independent Disks) group relating to said disk drives, said disk drives storing a plurality of data and a parity data related to data sent from said information processing device; and

a plurality of resource groups each having a plurality of resources among said port, said logical unit, said disk drives and said RAID group and each of said resource groups being logically partitioned by logical partition;

wherein each of said resource groups, independently each other, can be changed a relationship between said plurality of resources in said each of said resource groups.

22. (Currently Amended) ~~A storage system~~ A disk array system, comprising:
- a port receiving data sent from an information processing device;
 - a first controller controlling to transfer data received by said port;
 - a memory storing data in accordance with controlling by said first controller;
 - a second controller controlling to transfer data stored in said memory;
 - a disk drive group ~~being stored~~ storing data transferred by said second controller and having a plurality of disk drives;
 - a logical unit being an address sent data from said information processing device and corresponding to a storage region in said disk drive group;
 - a plurality of resource groups each having said port, a part or all of said first controller, a part or all of said memory, a part or all of said second controller, said disk drive group, and said logical unit; and
 - a first resource in a first resource group of said resource groups, said first resource being changed from a first state of relating to a second resource in said first resource group into a second state of relating to a third resource in said first resource group ~~in case of~~ for changing configuration in said first resource group.
23. (Currently Amended) ~~A storage system~~ A disk array system, comprising:
- a port receiving data sent from an information processing device;
 - a logical unit ~~being provided~~ for said information processing device and relating to said port;

a RAID (Redundant Array of Independent Disks) group relating to a plurality of disk drives, said disk drives storing a plurality of data and a parity data related to data sent from said information processing device to said port;

a plurality of logical resources having said port, said logical unit and said RAID group;

a plurality of physical resources having said disk drives;

a plurality of resource groups each having one or more of said logical resources and one or more of said physical resources;

a first resource group of said resource groups receiving a request of changing configuration in said first resource group so that a first resource in said first resource group can be changed from a first state of relating between said first resource and a second resource in said first resource group into a second state of relating between said first resource and a third resource in said first resource group.

24. (Currently Amended) ~~A storage system~~ A disk array system, comprising:

a port receiving data from an information processing device;

a controller controlling to transfer data received by said port;

a memory storing information which is used to control;

a plurality of disk drives storing data transferred and having a plurality of storage regions; and

a plurality of resource groups each being mutually partitioned by a logical partition and each having a plurality of said ports, a part of logical parts

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corresponding to said controller, a part of logical parts corresponding to said memory, and said disk drives;

wherein each of said resource groups can be related to said information processing device,

wherein a first information processing device related to a first resource group of said resource groups cannot be accessed to resources in a second resource group of said resource groups.

25. (Currently Amended) ~~A storage system~~ A disk array system, comprising:

a port receiving data from an information processing device;

a controller controlling to transfer data received by said port;

a memory storing data received by said port;

a plurality of disk drives ~~being stored~~ storing data transferred and having a plurality of storage regions; and

a plurality of resource groups each being mutually partitioned by a logical partition and each having a plurality of said ports, a part of logical parts corresponding to said controller, a part of logical parts corresponding to said memory, and said disk drives;

wherein each of said resource groups can be related to said information processing device,

wherein a first information processing device related to a first resource group of said resource groups cannot access resources in a second resource group of said resource groups.